

Figure S1. Study design flowchart. DElncRNA: differentially expressed long non-coding RNAs.

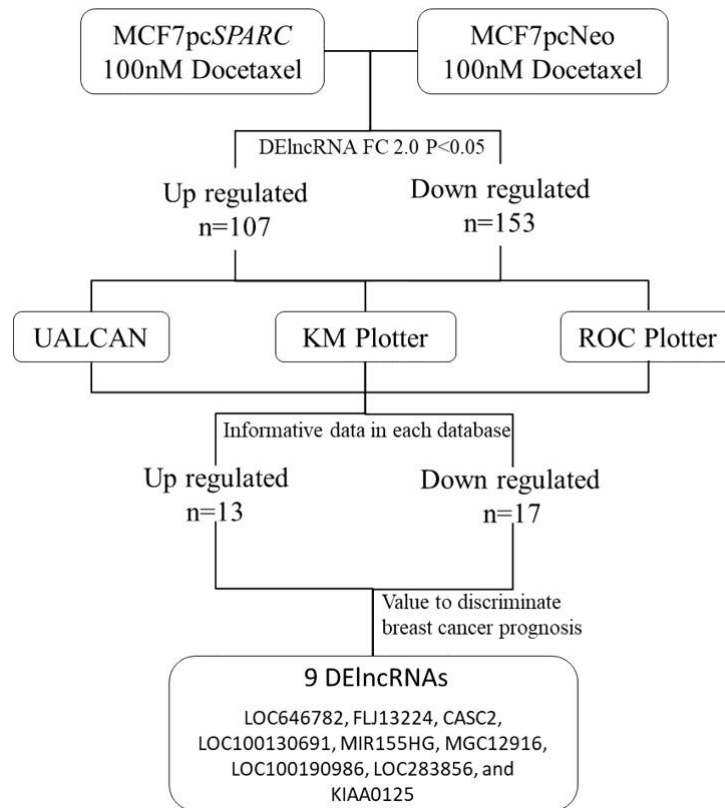


Figure S2. Expression profile of lncRNA in breast cancer (BC) patients. Expression in BC compared to normal breast tissue of (A) LOC646762 lncRNA, (B) FLJ13224 lncRNA, (C) CASC2 lncRNA, (D) LOC100130691, and (E) MGC12916 lncRNA, using the UALCAN database containing TCGA data. Data are reported as medians and interquartile range. * $P < 0.05$ ** $P < 0.001$ **** $P < 0.0001$ (Mann-Whitney test).

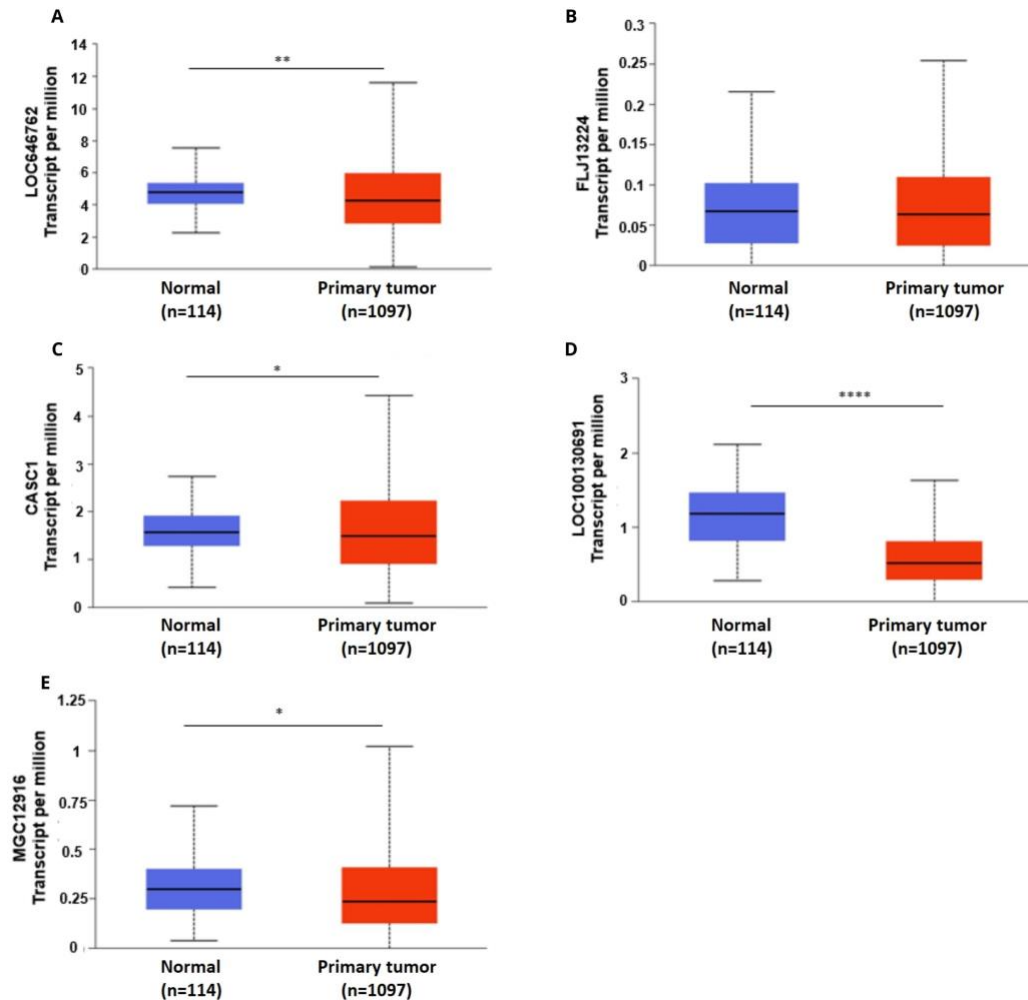


Figure S3. Expression profile of lncRNA in breast cancer patients. Expression in breast cancer different intrinsic subtypes using the UALCAN database containing TCGA data of (A) LOC646762 lncRNA, (B) FLJ13224 lncRNA, (C) CASC2 lncRNA, (D) LOC100130691, and (E) MGC12916 lncRNA. Data are reported as medians and interquartile range. * $P < 0.05$, ** $P < 0.001$, *** $P < 0.0001$, **** $P < 0.00001$ (Mann-Whitney test).

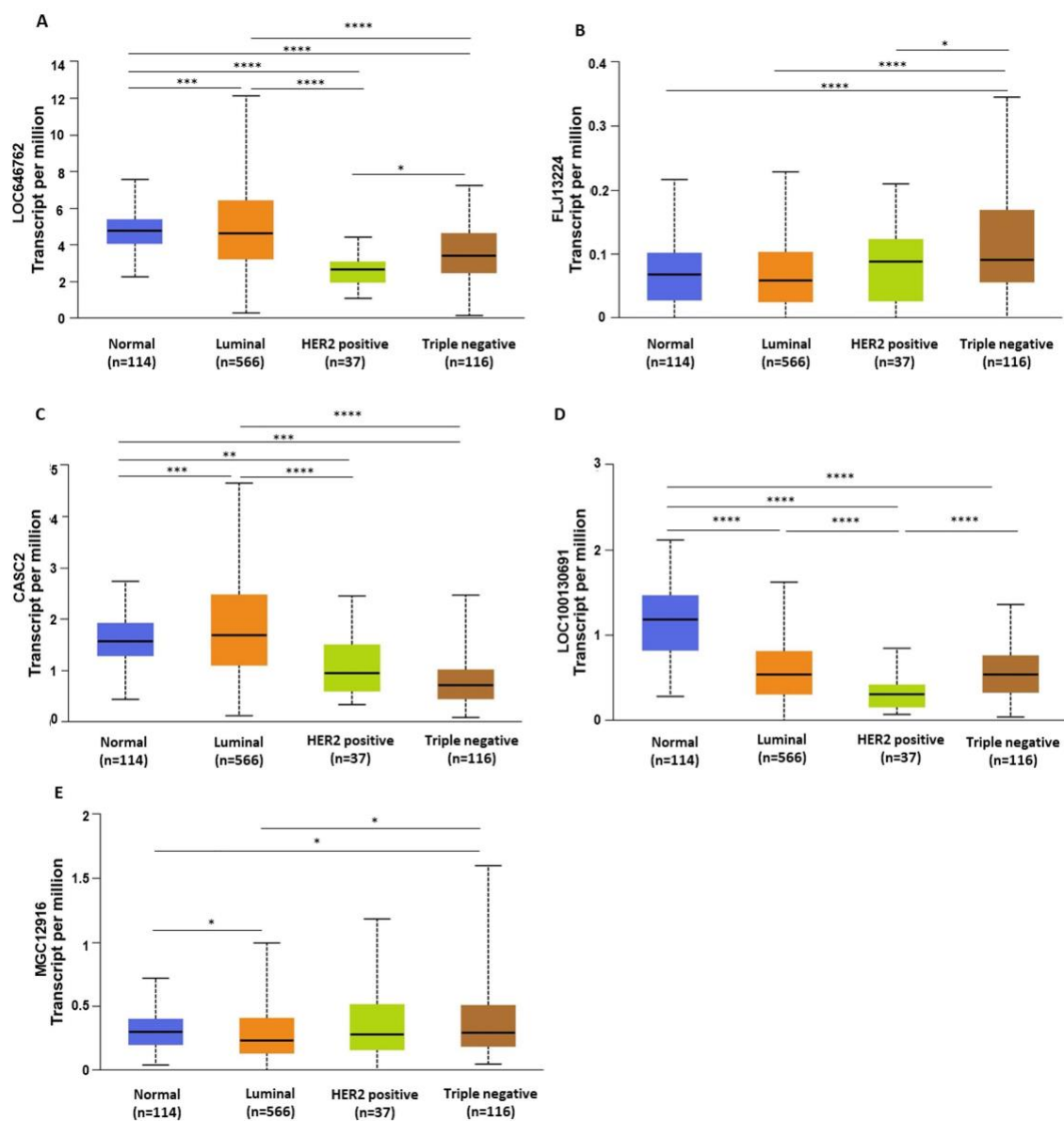


Figure S4. MIR155HG lncRNA expression in breast cancer patients. Kaplan-Meier curves for overall survival of breast cancer patients for (A) all subtypes or for each intrinsic subtype: (B) luminal A, (C) luminal B, (D) HER2, and (E) basal grouped as high or low expression of MIR155HG according to the best cut-off value using the JetSet best probe set (229437_at) at the KM Plotter online tool.

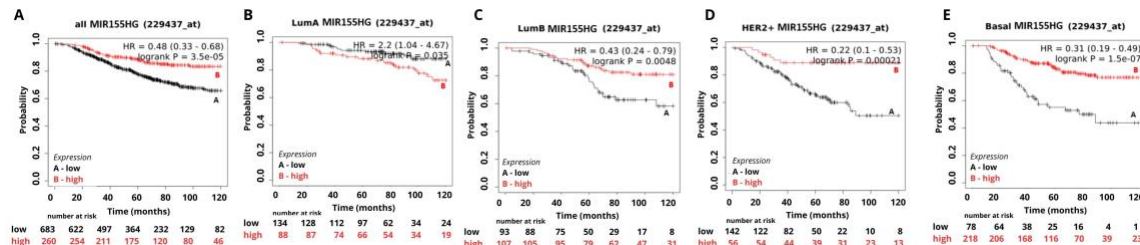


Figure S5. KIAA0125 lncRNA expression in breast cancer patients. Kaplan-Meier curves for overall survival of breast cancer patients for (A) all subtypes or for each intrinsic subtype: (B) luminal A, (C) luminal B, (D) HER2, and (E) basal grouped as high or low expression of KIAA0125 according to the best cut-off value using the JetSet best probe set (206478_at) at the KM Plotter online tool.

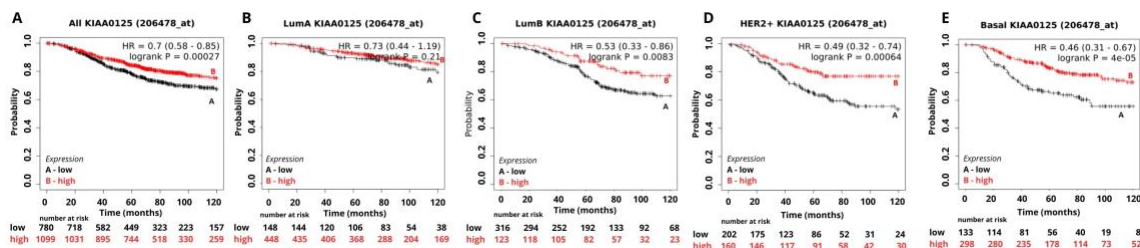


Figure S6. LOC283856 lncRNA expression in breast cancer patients. Kaplan-Meier curves for overall survival of breast cancer patients for (A) all subtypes or for each intrinsic subtype: (B) luminal A, (C) luminal B, (D) HER2, and (E) basal grouped as high or low expression of LOC283856 according to the best cut-off value using the JetSet best probe set (1560707_at) at the KM Plotter online tool.

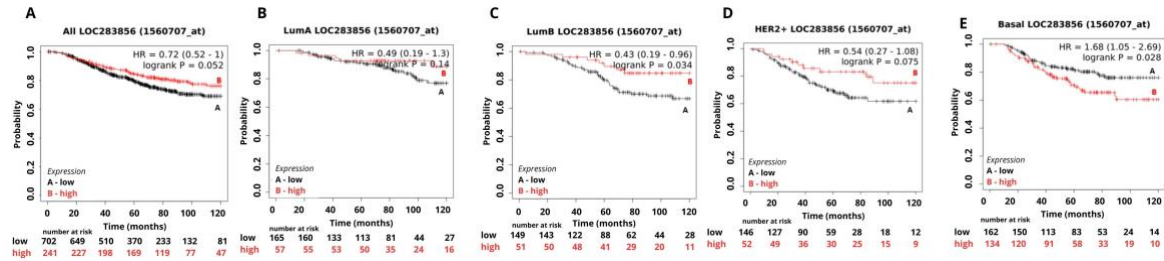


Figure S7. LOC100190986 lncRNA expression in breast cancer patients. Kaplan-Meier curves for overall survival of breast cancer patients for (A) all subtypes or for each intrinsic subtype: (B) luminal A, (C) luminal B, (D) HER2, and (E) basal grouped as high or low expression of LOC100190986 according to the best cut-off value using the JetSet best probe set (235060_at) at the KM Plotter online tool.

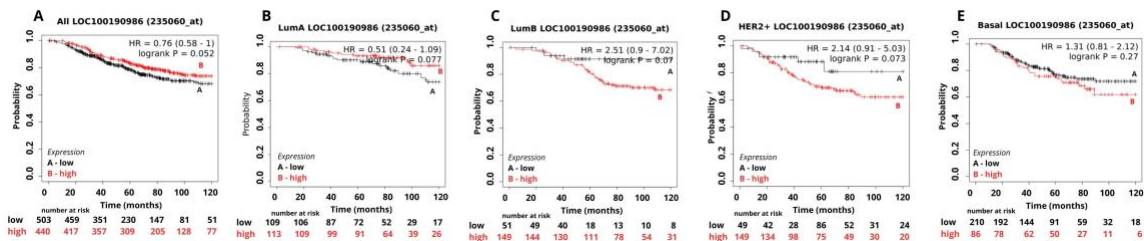


Figure S8. LOC646762 lncRNA expression in breast cancer patients. Kaplan-Meier curves for relapse-free survival of breast cancer patients for (A) all subtypes or for each intrinsic subtype: (B) luminal A, (C) luminal B, (D) HER2, and (E) basal grouped as high or low expression of LOC646762 according to the best cut-off value using the JetSet best probe set at the KM Plotter online tool. Kaplan-Meier curves for overall survival of breast cancer patients for (F) all subtypes or for each intrinsic subtype: (G) luminal A, (H) luminal B, (I) HER2, and (J) basal grouped as high or low expression of LOC646762 according to the best cut-off value using the JetSet best probe set (1568597_at) at the KM Plotter online tool.

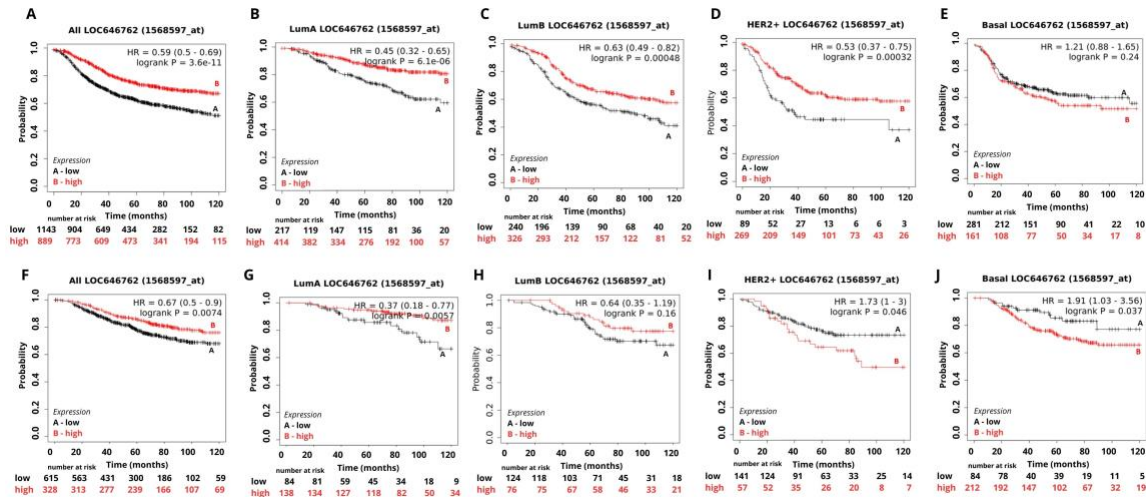


Figure S9. FLJ13224 lncRNA expression in breast cancer patients. Kaplan-Meier curves for relapse-free survival of breast cancer patients for (A) all subtypes or for each intrinsic subtype: (B) luminal A, (C) luminal B, (D) HER2, and (E) basal grouped as high or low expression of FLJ13224 according to the best cut-off value using the JetSet best probe set at the KM Plotter online tool. Kaplan-Meier curves for overall survival of breast cancer patients for (F) all subtypes or for each intrinsic subtype: (G) luminal A, (H) luminal B, (I) HER2, and (J) basal grouped as high or low expression of FLJ13224 according to the best cut-off value using the JetSet best probe set (220211_at) at the KM Plotter online tool.

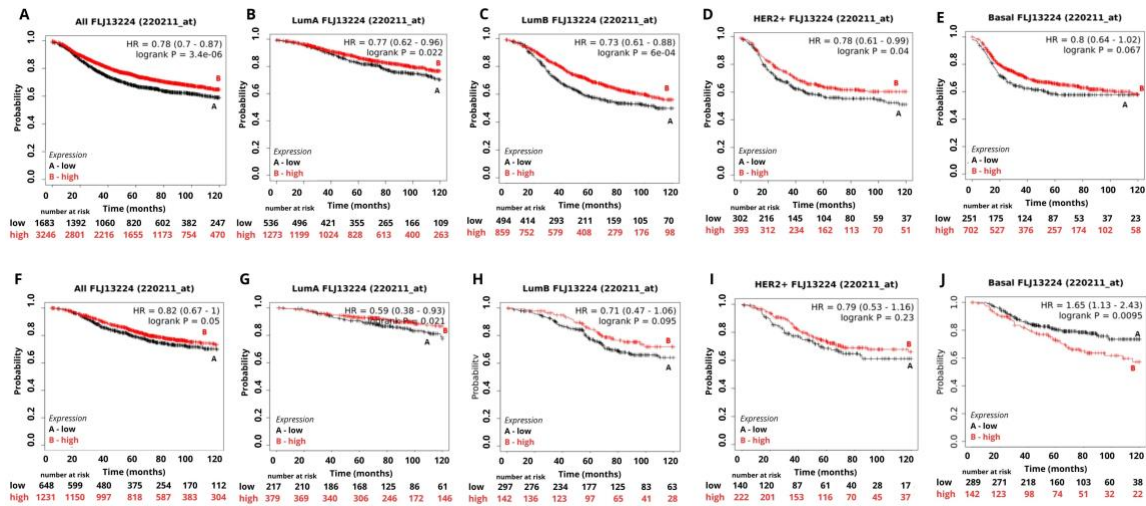


Figure S10. CASC2 lncRNA expression in breast cancer patients. Kaplan-Meier curves for relapse-free survival of breast cancer patients for (A) all subtypes or for each intrinsic subtype: (B) luminal A, (C) luminal B, (D) HER2, and (E) basal grouped as high or low expression of CASC2 according to the best cut-off value using the JetSet best probe set at the KM Plotter online tool. Kaplan-Meier curves for overall survival of breast cancer patients for (F) all subtypes or for each intrinsic subtype: (G) luminal A, (H) luminal B, (I) HER2, and (J) basal grouped as high or low expression of CASC2 according to the best cut-off value using the JetSet best probe set (1556630_at) at the KM Plotter online tool.

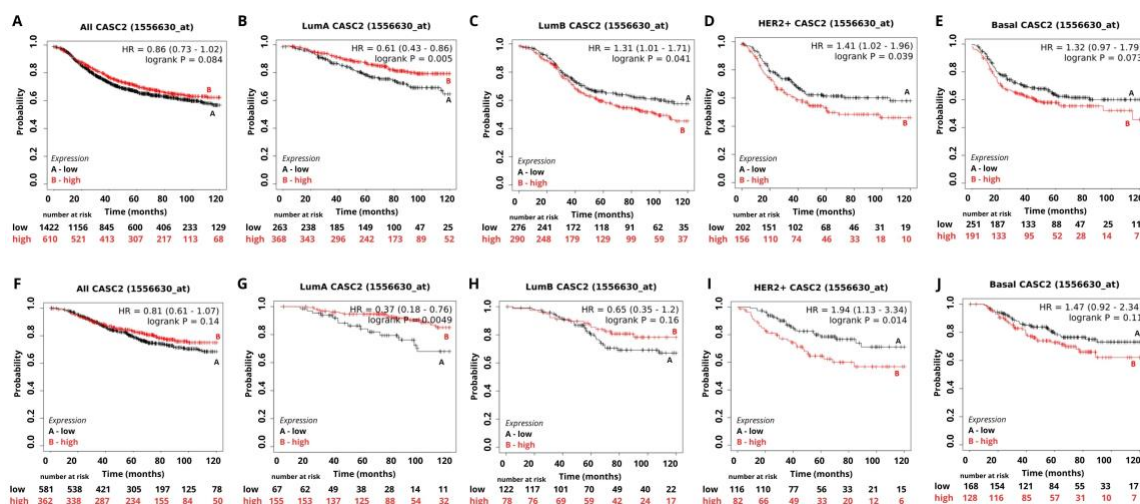


Figure S11. MGC12916 lncRNA expression in breast cancer patients. Kaplan-Meier curves for relapse-free survival of breast cancer patients for (A) all subtypes or for each intrinsic subtype: (B) luminal A, (C) luminal B, (D) HER2, and (E) basal grouped as high or low expression of MGC12916 according to the best cut-off value using the JetSet best probe set at the KM Plotter online tool. Kaplan-Meier curves for overall survival of breast cancer patients for (F) all subtypes or for each intrinsic subtype: (G) luminal A, (H) luminal B, (I) HER2, and (J) basal grouped as high or low expression of MGC12916 according to the best cut-off value using the JetSet best probe set (224508_at) at the KM Plotter online tool.

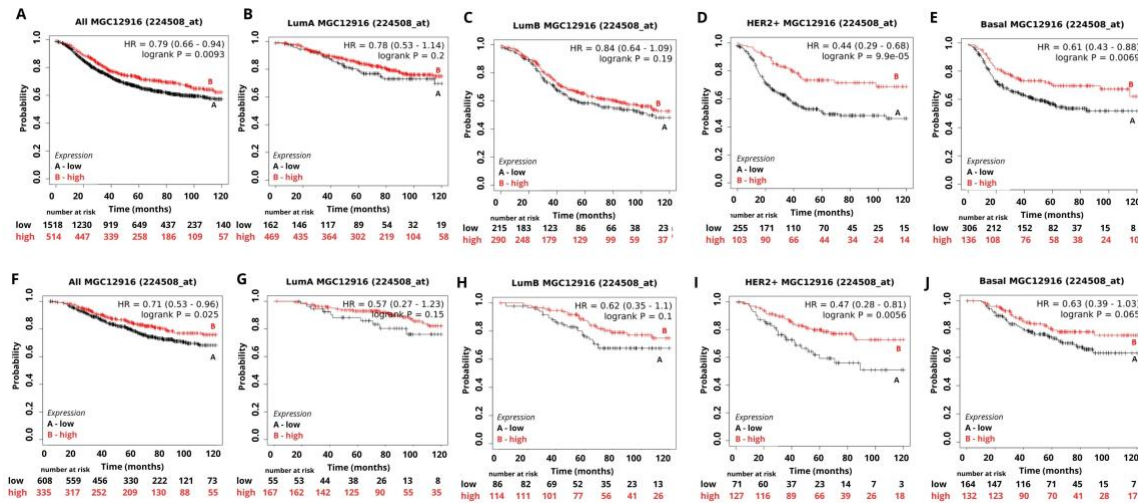


Figure S12. LOC100130691 lncRNA expression in breast cancer patients. Kaplan-Meier curves for relapse-free survival of breast cancer patients for (A) all subtypes or for each intrinsic subtype: (B) luminal A, (C) luminal B, (D) HER2, and (E) basal grouped as high or low expression of LOC100130691 according to the best cut-off value using the JetSet best probe set at the KM Plotter online tool. Kaplan-Meier curves for overall survival of breast cancer patients for (F) all subtypes or for each intrinsic subtype: (G) luminal A, (H) luminal B, (I) HER2, and (J) basal grouped as high or low expression of LOC100130691 according to the best cut-off value using the JetSet best probe set (231540_at) at the KM Plotter online tool.

